

Saujan Parajuli

Computer Science Graduate | AI, Data & Software Engineering

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PROFESSIONAL SUMMARY

Computer Science graduate with hands-on project experience in AI applications, backend systems, and relational data workflows. Worked with Python, SQL, FastAPI, LLM/RAG tools, browser automation, testing, and web technologies.

TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, JavaScript, C, C++, Java (Basic)
AI / ML: OpenAI API, LLM applications, RAG, ChromaDB, Ollama, scikit-learn
Backend / Data: FastAPI, REST APIs, WebSockets, Playwright, SQLite, pandas, Relational modeling
Web / Tools: React, Next.js, Streamlit, Plotly, Git, GitHub, pytest

SELECTED PROJECTS

AI Browser Agent

[GitHub](#)

Independent project · 2026 · Python, FastAPI, Playwright, OpenAI, Next.js, TypeScript

- Separated OpenAI planning from FastAPI/Playwright tools for page extraction, summaries, and screenshots.
- Required human approval for click/type actions, with backend guardrails and approval regression tests.

Job Market Intelligence Dashboard

[Live Demo](#)

[GitHub](#)

Independent data / analytics project · Python, pandas, SQL / SQLite, Streamlit, Plotly, scikit-learn

Uses fictional demo job-posting data.

- Cleaned 81 fictional rows into 80 postings with pandas, handling duplicates, missing values, and normalization.
- Built relational jobs and job_skills tables, SQL joins and CTEs, and filterable Plotly views with CSV export.

StudyAI

[GitHub](#)

3-person Senior Design team · Spring–Summer 2026 · Python, FastAPI, RAG, ChromaDB, Ollama, PyMuPDF

Backend Support, AI Integration & Testing

- Supported Python/FastAPI backend and AI/RAG integration using PDF extraction, ChromaDB, and Ollama.
- Performed manual and automated testing, investigated backend failures, and supported fixes.
- Coordinated sprint tracking, contributed technical documentation, and supported the final demo and presentation.

Academic Records Analysis Database

[GitHub](#)

Independent project · Python, SQL, SQLite, Recursive CTEs, Matplotlib

- Loaded 48 completed courses and 145 credits across three institutions into SQLite using Python.
- Used joins, aggregations, and recursive CTEs to trace prerequisite relationships: a longest chain of seven courses.

EXPERIENCE

IT Support Assistant · Chamling LLC / Irving Kabab N Kurry

Jan – May 2024

- Maintained WordPress/CMS website content and business online information.
- Updated inventory records in Excel and assisted with routine reporting. Troubleshot printer, network, and account issues to support daily operations.

Marketing Officer · A to Z Publications

Jan – Jul 2021

- Supported advertising and sales through outreach to schools and bookstores.
- Communicated with customers and organized outreach information in Excel.

EDUCATION

University of Texas at Arlington

August 2026

Bachelor of Science in Computer Science · Cum Laude · Dean's List · Spring 2026